



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 4237/ 7421

Email : spsy@bhel.in & vkarna@bhel.in

Web : www.bhel.com

TWO PART BID

Tender to be submitted in two Parts

Enquiry
Number:

2601900012

Enquiry Date:

05.04.2019

Due date for submission of
quotation:

29.04.2019

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	Fire Alarm Panel as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	3 Nos.
20	Ionization Smoke Detector with base as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	65 Nos.
30	Heat Detector with base as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	8 Nos.
40	12V, 7 AH Battery as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	6 Nos.
50	Auto Dialer as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	3 Nos.
60	FRLS Cable as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	2000 Mtrs
70	Ferro Sticker as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	30 Nos.

Important points to be taken care during submission of offer

1. Offer shall be evaluated as a single package for all the seven items (Sl.Nos.10 to 70) (over all L1 basis). Hence, all the seven items should be quoted without fail, else the corresponding offers will not be considered for evaluation.
2. Delivery terms shall be FOR BHEL Stores, Trichy
3. Compliance Form MM/ CE/ TRY/ IND/ 08 to be filled and enclosed along with the offer failing



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Item	Description	Quantity
	which, the offer will not be considered for evaluation. 4. Delivery period required is 1 month. 5. Erection and commissioning shall be done at BHEL Trichy by the supplier 6. Time period required for Erection and Commissioning shall be 4 weeks from the date of intimation by BHEL 7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media. BHEL's General guidelines / instructions (refer MM/CE/GENL/001- No EMD), compliance form and technical specification can be downloaded from BHEL web site http://www.bhel.com or from https://eprocure.gov.in/epublish/app under Enquiry reference "2601900012".	
	Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  Manager / Capital Equipment / MM

S.PARTHASARATHY
MANAGER
CAPITAL EQUIPMENT / MM
BHEL, TRICHY-620014.

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MANAGER
CAPITAL EQUIPMENT / MM
BHEL, TRICHY-620014.

PART – A

SECTION – 1: Qualifying Criteria

The BIDDER has to compulsorily meet the Qualifying Criteria indicated in **Section 1** to get qualified. Otherwise the technical offer will not be considered.

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
1.1	The BIDDER / VENDOR (OEM) shall have a minimum FIVE Years of Continuous Experience in Design, Manufacture & Supply of "Fire Alarm Systems". Vendor shall indicate the actual number of years of experience in the field.	
1.2	Only those vendors (OEMs) should quote, who have commissioned in the last 03 years (as on the original date of tender opening) at least three orders of " Fire Alarm Systems " in India with similar requirements and the referred work is presently working satisfactorily for more than one year from the date of commissioning (as on the original date of tender opening). The name and contact addresses of the customers to whom the fire safety alarm systems were supplied to be furnished with details.	
1.3	Vendor has to submit at least ONE PERFORMANCE CERTIFICATE for satisfactory performance of Fire Alarm Systems set as referred under clause 1.2 above, for a minimum period of one year from the date of commissioning (as on the original date of tender opening) from their customers in India, supplied and commissioned in the last 03 years. Performance certificate as Original Certificate or E-mail directly from the customer may be submitted. The original certificate may be returned after verification by BHEL, if required. For obtaining the Performance certificate, a suggestive format is provided at the end of Part A.	
1.4	BHEL reserves the right to verify the information provided by the Vendor for the referred Fire Alarm System at their referred customer's works. It shall be the responsibility of the vendor to facilitate the visit of BHEL's team at their referred customer works. The Travel, Board and Lodging expenses for BHEL Personnel shall be borne by BHEL. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected. BHEL reserves the right to accept or reject the OEMs based on the assessment of their technical and financial capability.	

SECTION - 2:

The BIDDER / VENDOR are requested to provide the following information:-

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
2.1	The BIDDER / VENDOR to furnish Reference List of Customers, with complete address, details of contact person, where Fire Alarm System has been supplied in the past.	
2.2	Specify details of Diesel Generator set supplied to other units of BHEL, if any (Year of commissioning with details etc.	

2.3	Details on SERVICE-AFTER-SALES Set-up in India including the Address of Agents / Service Centres in India.	
2.4	Any Additional data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

SECTION – 3:

The BIDDER to note:

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
3.1	The BIDDER / VENDOR shall submit the offer in TWO parts. 1. Technical Offer [with PART A & PART B] 2. Commercial Offer and Price bid.	
3.2	The Technical Offer shall contain complete details against all clauses of Technical Specifications given by BHEL.	
3.3	The Technical Offer shall be supported by copies of product Catalogues, Data Sheets and technical details of Bought- Out-Items.	
3.4	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

Suggestive Format of Performance Certificate:

The Performance should be certified by the customer on **Customer's Letter Head** and submitted along with the offer.

PERFORMANCE CERTIFICATE

1.0	Fire Alarm System Supplied by : (Manufacturer's name)	
2.0	Make & Model number of the Fire Alarm system.	
3.0	Month & Year of Commissioning	
4.0	Make of Fire alarm systems	
5.0	Make of Heat Detector and Ionisation Detectors	
6.0	Performance of the Fire Alarm system (Please tick the appropriate option)	Satisfactory
		Not Satisfactory
7.0	Service after sales (Please tick the appropriate option)	Satisfactory
		Not Satisfactory
8.0	Other remarks (if any)	
Date:		Signature & Seal of the Authority Issuing the Performance Certificate

1. Scope of Work:

WRI Buildings (Administrative, Lab and Workshop) are housing important and electrically sensitive equipment and documentation. To prevent fire mishaps it is propose to wire the different sections of these buildings with Fire and Heat Sensors to a centralised controller for suitable fire alarm annunciation. The scope of work includes supply, wiring, installation and commissioning of fire safety alarm system in three buildings of WRI individually. The fire alarm system should also enable alert through Mobile call/SMS upon any incidence.

The actual routing of all the sensors and detectors will be let known by the Engineer in charge/WRI. Vendors, however are welcome to make a visit to WRI to clear themselves on any clarification on the work content. No building drawings or equivalent will be provided.

2. Scope of Supply:

Based on the study done at WRI, the following will be the scope of supply for implementation:

S. No.	Item Description	Unit	Quantity
1	Fire Alarm Panel Controller	Nos.	3
2	Ionization Smoke Detector with Base	Nos.	65
3	Heat Detector with Base	Nos.	8
4	12 V, 7 AH Battery	Nos.	6
5	Auto Dialler	Nos.	3
6	FRLS Cable (for wiring and cabling of detectors)	m	2000
7	Ferro sticker	Nos.	30
8	Comprehensive AMC for three years after warranty period	years	3

All related labour and work tools are in the scope of the vendor. WRI/BHEL will not be providing any assistance in any form with material or men for execution of this contract.

3. Technical Specifications:

S. No.	Item Description
1	Fire Alarm Panel Controller The device should have processor based user friendly compact design. The offered model should at least have four individual control zones that can be operated independently. It should operate with a supply voltage of 230 V AC with reliable wide operating Voltage SMPS suitable for any Power Conditions. It should be capable of offering a regulated power supply for the operation of fire and smoke detectors operated in its control zones. Sufficient backup power (not less than for 24 hours) for the controller during electrical shutdown to be provided. Suitable (LCD/LED) Display for zone status display to be provided with indications for Power ON and other system status indicators. It should be possible to operate the zones individually and also be compatible to auto dial up facility in case of emergency. The system should offer annunciation Mute operation (Alarm Acknowledge). Alarm Test operation. The operating voltage is expected to be 24 V DC. All designs of the instrument should be Designed as per IS 2189 (BIS)

2	Ionization Smoke Detector with Base The Ionisation smoke detector should raise an alarm as and when the smoke enters the chamber. The method of smoke detection is to be change in resistance of the current flow path of the electrical circuit connected to the smoke detector. It should be possible to plug these detectors to the false ceiling/to holders and lockable. They should be compatible with the Fire alarm controllers mentioned in description of S. No. 1. The detector is to be supplied with the base and should have a LED indication at the base for its operation and a relay switch. The operation voltage for the detector is to be 24 V DC.
3	Heat Detector with Base The Heat Detector is for monitoring the temperature of the operating environment and is provide a voltage output in proportion to the air temperature. It should be possible to plug these detectors to the false ceiling/to holders and lockable. They should be compatible with the Fire alarm controllers mentioned in description of S. No. 1. The detector is to be supplied with the base and should have a LED indication at the base for its operation and a relay switch. The operation voltage for the detector is to be 24 V DC.
4	12 V, 7 AH Battery: The battery is for providing back up to the Fire Panel Controller and should be of reputed make like Exide or equivalent. The equivalent needs to be approved by Engineer in charge/ WRI M&S before installation.
5	Auto Dialler: The Auto Dialler should have a inbuilt matrix key pad for data entry and storing phone number with a user friendly with the use of LCD. The display size should be at least 16x2 LCD Display. It should have the capability to store Phone number of any number of digits. Tone / Pulse switchable. It should enable automatic mode changes over from programming mode to execution mode. It should also send pre-recorded voice of 40 to 60 seconds duration. Standard features should include false dealing prevention, single message auto dialler supports a PSTN & GSM of 5 telephone numbers. The auto dialler should be compatible for working with the panel controller in S. No. 1.
6	FRLS Cable: This cable is for rigging up the fire safety alarm circuit across buildings and is to be 1.1 KV Grade to IS: 1554, Overall FRLS Sheath, Screened Armoured & twisted Size: 2C x 1.5 mm². Only ISI certified brands will be accepted.
7	Ferro sticker: It is also identified as Self Induction Fire Extinguishing System is a self-contained, heat sensing, activating, extinguishing all in one sticker fire extinguisher. Ferosticker with First response to protect initial fire. In the event of fire, the system should quickly detect, automatically sense and start through the occurrence of chemical reactions to release a large number of nontoxic, harmless, gas like agent and fire free radicals to extinguish the fire.
8	Comprehensive AMC for three years after warranty period: The offer price should include comprehensive Annual Maintenance Contract for the installation for three years after the warranty period.

4. Terms and conditions:

- a. The rates indicated is to be all inclusive of labour for supply, installation and commissioning at WRI.
- b. The contractor must satisfy himself by personal study and examination of the specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time, dispute/complaint of any misunderstanding with regard to nature or omission of the work to be done nor shall any application for compensation in terms of time and money shall be accepted by BHEL regarding the above.
- c. Before quoting rates for the work, the tenderer shall inspect the site of work (WRI) and should satisfy himself about the nature and scope of work to be executed. BHEL will not, however, after acceptance of a contract rate, pay extra charges for any other reason. In case the contractor is found later on to have misjudged the nature and scope of the work and also the availability of materials, no separate scheme will be provided for estimation.
- d. Contractor shall be deemed to have included in his tender price of all the appliances required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of work and rate of progress which in the opinion of the " Contract Signing Officer" will ensure the completion of the work within the time specified. No supplementary tools/accessories/human resources will be provided by WRI/BHEL towards this work completion.
- e. Period for completion of work is maximum of 60 days.
- f. Quantities mentioned for wiring requirements are approximate and may be operated fully or partially. Charges/Bill will be paid to the extent of work completion. The decision of final work content is at the discretion of Engineer/M&S/WRI and cannot be disputed.
- g. The work so far as it is to be carried out in the Company's premises shall be carried out at such time as the Company may approve and so as not to interfere with the conduct of Company's business, but the Company shall give the contractor all reasonable facilities for carrying out the work.
- h. The contractor shall not resort to subcontracting under any circumstances. If found subcontracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the contract.
- i. The contractor is wholly responsible for loss of life or partial disability of any of their employees while on duty. In case of occurrence of any accident/ injury to contractor labour, BHEL will not pay any compensation. Contractor shall indemnify BHEL against all such costs resulting out of accident to his employees.
- j. Supervision of contract work force shall be monitored by contract supervisor. Contractor and supervisor shall be available whenever required. All decisions on quantity/extent of work/ disputes will be reported to Engineer/M&S/WRI and his decision will be deemed final.
- k. The Contractor shall provide the required safety equipment like helmets, uniform, safety belt, safety shoes, hand gloves, Nose mask etc., to the contract labourers engaged by him. All sorts of safety measures to be taken shall be deemed to form an integral part of the agreement and non-compliance with safety requirement amounts to breach of the contract.
- l. Contractor has to obtain work permit for "working at heights above 3 meters height from ground level" wherever applicable.

TECHINICAL SPECIFICATIONS FOR FIRE ALARM SYSTEMS AT WRI BUILDINGS

- m. All tools, tackles, lifting appliances, scaffolds, cradles, safety nets, ladders, equipment etc. used by the contractor shall be safe design and construction. The authorized BHEL officials shall have the right to ban the use of any item, if such use is considered to be dangerous by the concerned BHEL officials. Contractor shall provide all material at his cost as mentioned in the contract to his employees for carrying out the job.